

For Research Use Only

# CEACAM1/CD66a Recombinant monoclonal antibody, PBS Only

Catalog Number: 83524-8-PBS



## Basic Information

<b>Catalog Number:</b> 83524-8-PBS	<b>GenBank Accession Number:</b> BC014473	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 634	<b>CloneNo.:</b> 253148F1
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P13688	
<b>Isotype:</b> IgG	<b>Full Name:</b> carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein)	
<b>Immunogen Catalog Number:</b> EG7064	<b>Calculated MW:</b> 526 aa, 58 kDa	
	<b>Observed MW:</b> 140 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, Indirect ELISA

**Species Specificity:**  
human

## Background Information

CEACAM1, also known as CD66a or BGP (biliary glycoprotein), is a member of the carcinoembryonic antigen (CEA) family which belongs to the immunoglobulin superfamily of cell adhesion molecules (PMID: 16919437). CEACAMs play major roles in cell-cell and cell-ECM adhesion and have been implicated in the control of cell proliferation, angiogenesis, and tissue remodeling (PMID: 23021083). CEACAM1 is a transmembrane glycoprotein that is expressed on epithelial, endothelial, and immune cells (PMID: 30314283). CEACAM1 has been demonstrated to play a role in morphogenesis, apoptosis, angiogenesis, cell proliferation, cell motility, fibrosis, and immunity (PMID: 31604530). Western blot analysis of recombinant protein confirmed that this antibody specifically recognizes CEACAM1.

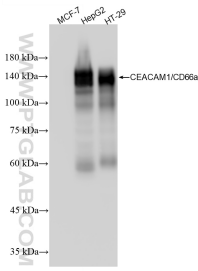
## Storage

**Storage:**  
Store at -80°C.  
**Storage Buffer:**  
PBS only, pH7.3

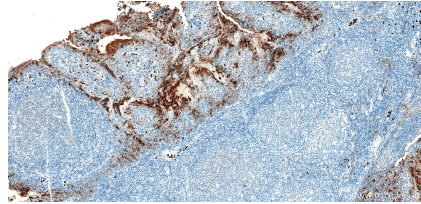
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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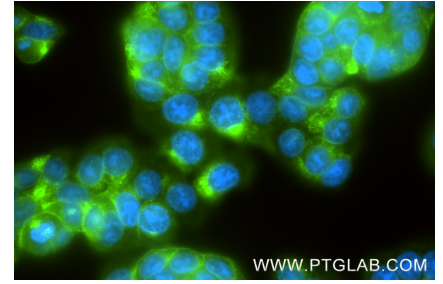
## Selected Validation Data



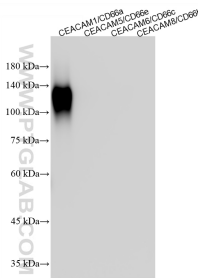
Various lysates were subjected to SDS PAGE followed by western blot with 83524-8-RR (CEACAM1/CD66a antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83524-8-PBS in a different storage buffer formulation.



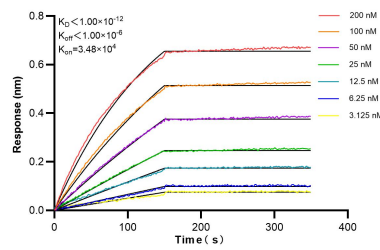
Immunohistochemical analysis of paraffin-embedded human tonsil tissue slide using 83524-8-RR (CEACAM1/CD66a antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83524-8-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Methanol) fixed HT-29 cells using CEACAM1/CD66a antibody (83524-8-RR, Clone: 253148F1) at dilution of 1:500 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 83524-8-PBS in a different storage buffer formulation.



Recombinant protein were subjected to SDS PAGE followed by western blot with 83524-8-RR (CEACAM1/CD66a antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83524-8-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 83524-8-RR against Human CEACAM1/CD66a were performed. The affinity constant is below 1 pM.